| Risk | Probability | Impact | Exp | Mitigation Plan |
| --- | --- | --- | --- | --- |
| Failure to identify complex functionalities and time required to develop those functionalities. | Medium | High | High | Identify complicated functionalities and target them in development    The Process flow of the project should be broken down into small, clearly defined components where the allocated timeframe for each process is relatively short in duration |
| Continuous changing requirements | High | Medium | Medium | Requirement analysis must be done in a complete manner    Gathering all the requirements for the project before the design phase |
| No reference advanced technology available or he the existing technology is in initial stages. | Low | Medium | Low | Refer existing conference papers on similar technology to gain insight and ideas about implementation    Contact leading researchers and technician’s in the concerned field and gain further insight |
| Difficult project modules integration. | Medium | High | Medium | Use compatible software that can be easily integrated by developers    Develop API’s that are easy to use and increase compatibility between modules in the project |
| Resources are not tracked properly. All resources like staff, systems, skills of individuals etc. | High | High | High | Project management team must consist of extremely skilled individuals capable of monitoring resources    Simple techniques to keep track of resources such as log files that are accessible on a login basis |
| Unexpected project scope expansions | Medium | High | High | Defining the project clearly and managing the changes in scope throughout the duration of the project    can be minimized and managed with Appropriate Planning Techniques |
| Failure to resolve the responsibilities | Low | Medium | Low | Team leader must be selected based on leadership skills    Team Leader must effectively communicate to responsibilities to members and must be approachable |
| No communication in the team | Medium | High | Medium | Team building activities must be undertaken as a part of the project to increase familiarity among team members    Team members must hold meeting every day to communicate ideas and project status to other members. |
| Insufficient QA time to validate on all browsers and OS types. | High | Low | Low | Application can be developed on the lowest version of OS as most OS support backward compatibility    Appropriate time allocation in the schedule for testing and integration of the features. |
| Wrong time estimation  (Schedule risks) | High | High | High | The Process flow of the project should be broken down into small, clearly defined components where the allocated timeframe for each process is relatively short in duration    Be wary of team members or external parties, who hesitate to give estimates or whose estimates seem unrealistic based on historical data and previous experience |